

THERMAL SYSTEM INSULATION LEGEND	
	PIPE INSULATION & FITTINGS
	BOILER ACCESS PORT INSULATION
	BOILER DOOR GASKETS
	BOILER LINER INSULATION
	THERMAL SURFACE COATING (BOILER PATCH MATERIAL)
	SILVER SURFACING MATERIAL
	TSI & GASKET DEBRIS IN TRENCHES

- SPECIAL NOTES**
- PIPE INSULATION & FITTINGS ABOVE CEILING IN ROOM G03.
 - PIPE SADDLES NOT SHOWN, BUT ARE TO BE ASSUMED TO CONTAIN ACM.
 - CONTAINMENT TO REMAIN IN PLACE FOR THE DURATION OF ABATEMENT.
 - DUE TO THE AGE OF THE BUILDINGS, PAINT ON SURFACES TO BE DEMOLISHED SHALL BE CONSIDERED AS LEAD-CONTAINING PAINT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLASSIFYING ALL WASTE LOADS AS PAINT RESIDUE OR DEMOLITION DEBRIS. PAINT RESIDUE WASTE LOADS MUST BE LABORATORY TESTED BY THE TOXICITY CHARACTERISTICS LEACHING PROCEDURE (TCLP), EPA METHOD 1311, TO DETERMINE HAZARDOUS/NON-HAZARDOUS STATUS & DISPOSAL REQUIREMENTS. ALL HANDLING & DISPOSAL OF WASTE LOADS SHALL MEET THE REQUIREMENTS OF FEDERAL, STATE, & LOCAL REGULATIONS GOVERNING THE WORK OF THE PROJECT. TCLP SAMPLE TEST RESULTS SHALL BE PROVIDED TO THE RESIDENT ENGINEER TO CONFIRM HAZARDOUS/NON-HAZARDOUS & DISPOSAL REQUIREMENTS STATUS.

ABATEMENT LEGEND	
	NEGATIVE AIR MACHINE
	CONTAINMENT
	WASTE LOAD-OUT AREA
	DECONTAMINATION UNIT

Pipe Insulation (Linear Feet)	
	2" 3" 4" 6" 8" 10" 12" 14" 16" 18" 20"
G01-70-JB	100 75 200 257 26 12
G02-70-JB	118 128 250 304 120 50
G03-70-JB	6
G04-70-JB	120 11 103 275
G05-70-JB	200 141 250 450 310 9 140 12 50 9 80
Totals	200 141 250 450 310 9 140 12 50 9 80
Pipe Fittings (Each)	
	2" 3" 4" 6" 8" 10" 12" 14" 16" 18" 20"
G01-70-JB	27 21 119 12
G02-70-JB	23 25 51 27 23 14
G03-70-JB	40 4 34 14
G04-70-JB	2
Totals	76 25 52 100 101 9 30 4 14 6 4
Additional	
G05-70-JB	**12) Boiler Access Port Insulation 560 ft
G05-70-JB	Boiler Door Gasket (3) 9 ft
G05-70-JB	**Boiler Liner Insulation 17680 ft
G05-70-JB	**Silver Surfacing Material 17680 ft
G05-70-JB	**Boiler Patch Material (3 Boilers) 1885 ft

1	01/15/15	AMENDMENT 2 - MOVE WLO & ADD NOTE 4
No.	Date	Revisions

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PHONE: (314) 991-2633

ESTIMATING:
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1204 WASHINGTON AVENUE, SUITE 200
ST. LOUIS, MO 63103
PHONE: (314) 962-5344

CERTIFICATE OF AUTHORITY

ROBERT B. RAINES, II, PE
LICENSE NO. PE-2014028031
31 DECEMBER 2014

ARCHITECT:

CHRISTNER

ARCHITECTS | DESIGNERS | PLANNERS | LANDSCAPE ARCHITECTS
168 N. MERAMEC AVENUE | ST. LOUIS | MISSOURI 63105
TEL 314 725 2927 | FAX 314 725 2928 | CHRISTNERINC.COM

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Drawing Title
GROUND FLOOR
THERMAL SYSTEM INSULATION TO BE ABATED PRIOR TO DEMOLITION

Approved Project Director
John Sanders

Project Title
DEMOLISH UTILITY PLANT
BOILER AND CHILLER PLANT

Location
JEFFERSON BARRACKS DIVISION

Date
29 OCTOBER 2012

Checked
RWD

Drawn
LNU

Project Number
657-313G

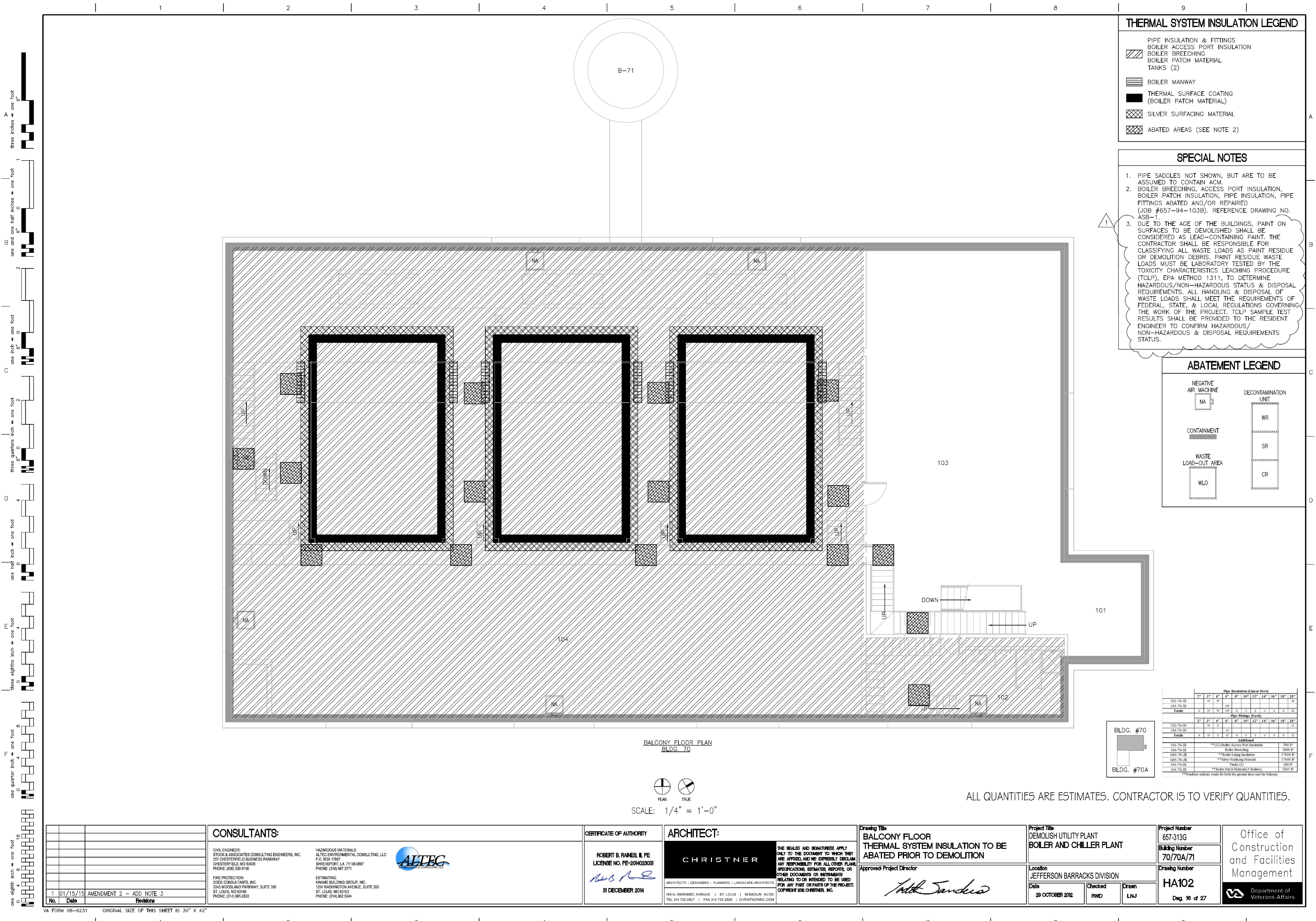
Building Number
70/70A/71

Drawing Number
HA101

Dwg. 15 of 27

Office of
Construction
and Facilities
Management

Department of
Veterans Affairs



THERMAL SYSTEM INSULATION LEGEND	
	PIPE INSULATION & FITTINGS
	BOILER ACCESS PORT INSULATION
	BOILER BREECHING
	BOILER PATCH MATERIAL
	TANKS (2)
	BOILER MANWAY
	THERMAL SURFACE COATING (BOILER PATCH MATERIAL)
	SILVER SURFACING MATERIAL
	ABATED AREAS (SEE NOTE 2)

SPECIAL NOTES

- PIPE SADDLES NOT SHOWN, BUT ARE TO BE ASSUMED TO CONTAIN ACM.
- BOILER BREECHING, ACCESS PORT INSULATION, BOILER PATCH INSULATION, PIPE INSULATION, PIPE FITTINGS ABATED AND/OR REPAIRED (JOB #657-94-103B). REFERENCE DRAWING NO. ASB-1.
- DUE TO THE AGE OF THE BUILDINGS, PAINT ON SURFACES TO BE DEMOLISHED SHALL BE CONSIDERED AS LEAD-CONTAINING PAINT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLASSIFYING ALL WASTE LOADS AS PAINT RESIDUE OR DEMOLITION DEBRIS. PAINT RESIDUE WASTE LOADS MUST BE LABORATORY TESTED BY THE TOXICITY CHARACTERISTICS LEACHING PROCEDURE (TCLP), EPA METHOD 1311, TO DETERMINE HAZARDOUS/NON-HAZARDOUS STATUS & DISPOSAL REQUIREMENTS. ALL HANDLING & DISPOSAL OF WASTE LOADS SHALL MEET THE REQUIREMENTS OF FEDERAL, STATE, & LOCAL REGULATIONS GOVERNING THE WORK OF THE PROJECT. TCLP SAMPLE TEST RESULTS SHALL BE PROVIDED TO THE RESIDENT ENGINEER TO CONFIRM HAZARDOUS/NON-HAZARDOUS & DISPOSAL REQUIREMENTS STATUS.

ABATEMENT LEGEND	
	NEGATIVE AIR MACHINE
	CONTAINMENT
	WASTE LOAD-OUT AREA
	DECONTAMINATION UNIT
	WLO
	WR
	SR
	CR

Pipe Insulation (Linear Feet)	
	2" 3" 4" 6" 8" 10" 12" 14" 16" 18" 20"
102-70-JB	25 55 105 155 205 255 305 355 405 455 505
104-70-JB	0 35 65 105 135 165 195 225 255 285 315
Totals	0 35 65 105 135 165 195 225 255 285 315
Pipe Fittings (Each)	
	2" 3" 4" 6" 8" 10" 12" 14" 16" 18" 20"
102-70-JB	10 6 4 2 1 1 1 1 1 1 1
104-70-JB	0 0 0 0 0 0 0 0 0 0 0
Totals	0 6 4 2 1 1 1 1 1 1 1
Additional	
104-70-JB	**12 Boiler Access Port Insulation 360 SF
104-70-JB	Boiler Breeching 3000 SF
104-70-JB	**Boiler Patch Material 17640 SF
104-70-JB	**Silver Surfacing Material 17640 SF
104-70-JB	Tanks (2) 180 SF
104-70-JB	**Boiler Patch Material (3 Boilers) 1885 SF

**Numbers indicate totals for both the ground floor and the balcony.

CONSULTANTS: CIVIL ENGINEER: STOCK & ASSOCIATES CONSULTING ENGINEERS, INC. 257 CHESTERFIELD BUSINESS PARKWAY CHESTERFIELD, MO 63005 PHONE: (636) 530-9100 FIRE PROTECTION: CODE CONSULTANTS, INC. 2043 WOODLAND PARKWAY, SUITE 200 ST. LOUIS, MO 63146 PHONE: (314) 991-2633 HAZARDOUS MATERIALS: ALTEC ENVIRONMENTAL CONSULTING, LLC P.O. BOX 17867 SHREVEPORT, LA 71118-0867 PHONE: (318) 867-3771 ESTIMATING: KWAME BUILDING GROUP, INC. 1204 WASHINGTON AVENUE, SUITE 200 ST. LOUIS, MO 63103 PHONE: (314) 962-5344	CERTIFICATE OF AUTHORITY ROBERT B. RAINES, II, PE LICENSE NO. PE-2014028031 31 DECEMBER 2014	ARCHITECT: CHRISTNER ARCHITECTS DESIGNERS PLANNERS LANDSCAPE ARCHITECTS 168 N. MERAMEC AVENUE ST. LOUIS MISSOURI 63105 TEL 314 725 2927 FAX 314 725 2928 CHRISTNERINC.COM	Drawing Title BALCONY FLOOR THERMAL SYSTEM INSULATION TO BE ABATED PRIOR TO DEMOLITION Approved Project Director Jeff Sanders	Project Title DEMOLISH UTILITY PLANT BOILER AND CHILLER PLANT Location JEFFERSON BARRACKS DIVISION Date 29 OCTOBER 2012 Checked RWD Drawn LNU	Project Number 657-313G Building Number 70/70A/71 Drawing Number HA102 Dwg. 16 of 27	Office of Construction and Facilities Management Department of Veterans Affairs
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1
2
3
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5
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7
8
9

A
B
C
D
E
F

one eighth inch = one foot
one quarter inch = one foot
three eighths inch = one foot
one half inch = one foot
three quarters inch = one foot
one inch = one foot
one and one half inches = one foot
three inches = one foot
6"

THERMAL SYSTEM INSULATION LEGEND

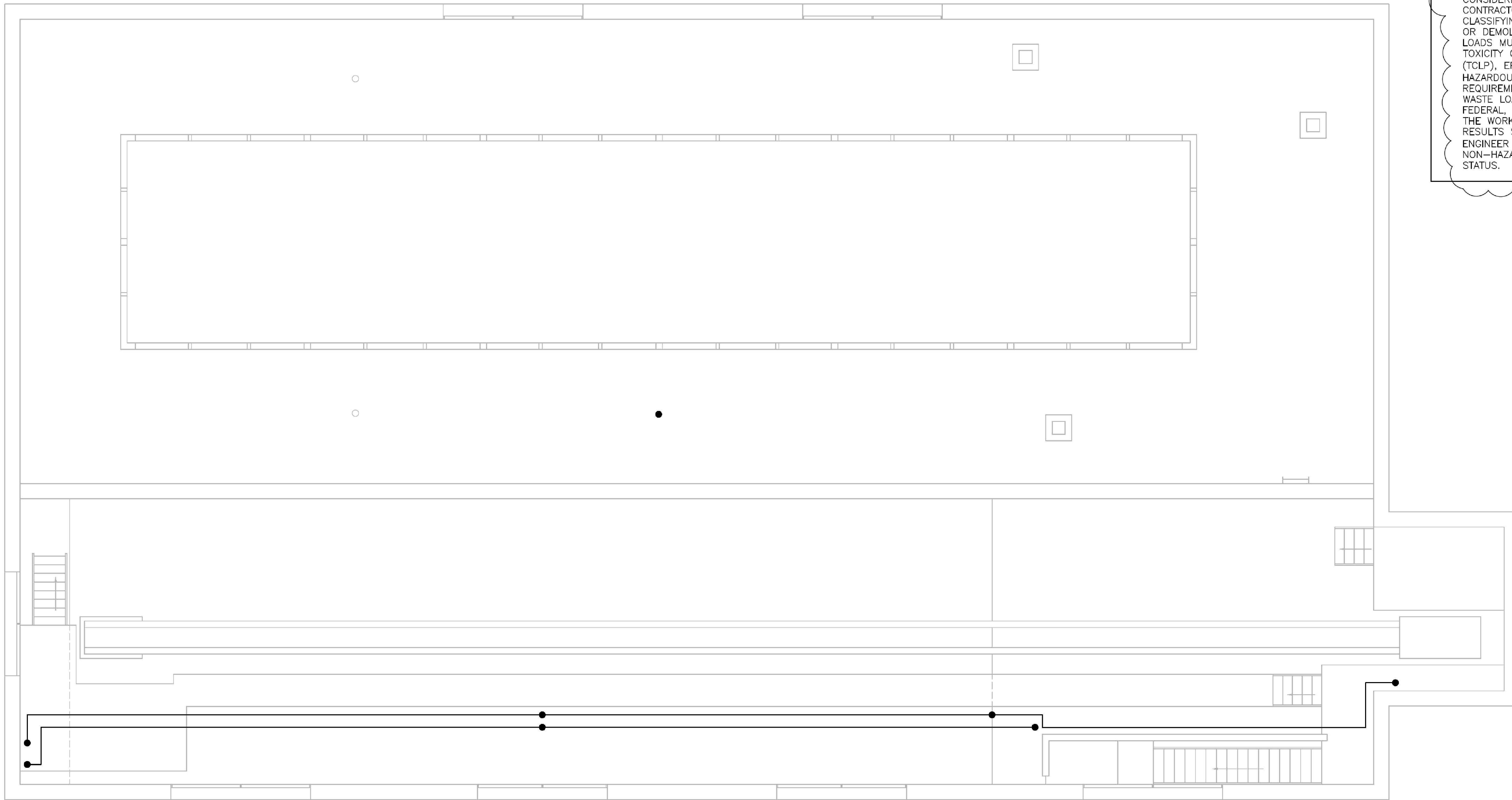
PIPE INSULATION & FITTINGS

— HORIZONTAL PIPING

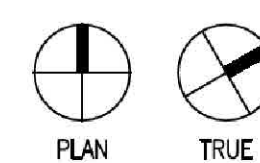
• VERTICAL PIPING

SPECIAL NOTES

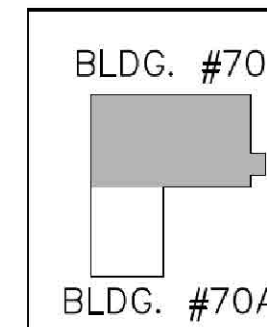
1. PIPING TO BE ABATED BY WRAPPING & CUTTING PIPE SECTIONS WITH WET METHODS. ALL DEBRIS TO BE HEPA VAC.
2. PIPE SADDLES NOT SHOWN, BUT ARE TO BE ASSUMED TO CONTAIN ACM.
3. DUE TO THE AGE OF THE BUILDINGS, PAINT ON SURFACES TO BE DEMOLISHED SHALL BE CONSIDERED AS LEAD-CONTAINING PAINT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLASSIFYING ALL WASTE LOADS AS PAINT RESIDUE OR DEMOLITION DEBRIS. PAINT RESIDUE WASTE LOADS MUST BE LABORATORY TESTED BY THE TOXICITY CHARACTERISTICS LEACHING PROCEDURE (TCLP), EPA METHOD 1311, TO DETERMINE HAZARDOUS/NON-HAZARDOUS STATUS & DISPOSAL REQUIREMENTS. ALL HANDLING & DISPOSAL OF WASTE LOADS SHALL MEET THE REQUIREMENTS OF FEDERAL, STATE, & LOCAL REGULATIONS GOVERNING THE WORK OF THE PROJECT. TCLP SAMPLE TEST RESULTS SHALL BE PROVIDED TO THE RESIDENT ENGINEER TO CONFIRM HAZARDOUS/NON-HAZARDOUS & DISPOSAL REQUIREMENTS STATUS.



SKYLIGHT & COAL BUNKER PLAN
BLDG. 70



SCALE: 1/4" = 1'-0"



	Pipe Insulation (Linear Feet)									
	2"	3"	4"	6"	8"	10"	12"	14"	16"	20"
203-70-B	116	148	258	201	138	78	96			
Totals	0	116	148	258	201	138	0	96	0	0

	Pipe Fittings (Each)									
	2"	3"	4"	6"	8"	10"	12"	14"	16"	20"
203-70-B	23	25	51	41	23	14	7			
Totals	0	198	185	207	242	0	140	0	64	57

ALL QUANTITIES ARE ESTIMATES. CONTRACTOR IS TO VERIFY QUANTITIES.

CONSULTANTS: CIVIL ENGINEER: STOCK & ASSOCIATES CONSULTING ENGINEERS, INC. 257 CHESTERFIELD BUSINESS PARKWAY CHESTERFIELD, MO 63005 PHONE: (636) 530-9100 HAZARDOUS MATERIALS: ALTEC ENVIRONMENTAL CONSULTING, LLC P.O. BOX 17667 SHREVEPORT, LA 71118-0667 PHONE: (518) 867-3771 FIRE PROTECTION: CODE CONSULTANTS, INC. 2043 WOODLAND PARKWAY, SUITE 300 ST. LOUIS, MO 63146 PHONE: (314) 991-2633 ESTIMATING: KWAME BUILDING GROUP, INC. 1204 WASHINGTON AVENUE, SUITE 200 ST. LOUIS, MO 63103 PHONE: (314) 962-5344		CERTIFICATE OF AUTHORITY ROBERT B. RAINES, II, PE LICENSE NO. PE-2014028031 31 DECEMBER 2014		ARCHITECT: CHRISTNER ARCHITECTS DESIGNERS PLANNERS LANDSCAPE ARCHITECTS 168 N. MERAMEC AVENUE ST. LOUIS MISSOURI 63105 TEL 314 725 2927 FAX 314 725 2928 CHRISTNERINC.COM		Drawing Title SKYLIGHT AND COAL BUNKER THERMAL SYSTEM INSULATION TO BE ABATED PRIOR TO DEMOLITION Approved Project Director Jeff Sanders		Project Title DEMOLISH UTILITY PLANT BOILER AND CHILLER PLANT Location JEFFERSON BARRACKS DIVISION Date 29 OCTOBER 2012 Checked RWD Drawn LNU		Project Number 657-313G Building Number 70/70A/71 Drawing Number HA103 Dwg. 17 of 27		Office of Construction and Facilities Management Department of Veterans Affairs	
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1 2 3 4 5 6 7 8 9

A
three inches = one foot
1
0
6"

B
one and one half inches = one foot
1
0
6"

C
one inch = one foot
1
0
6"

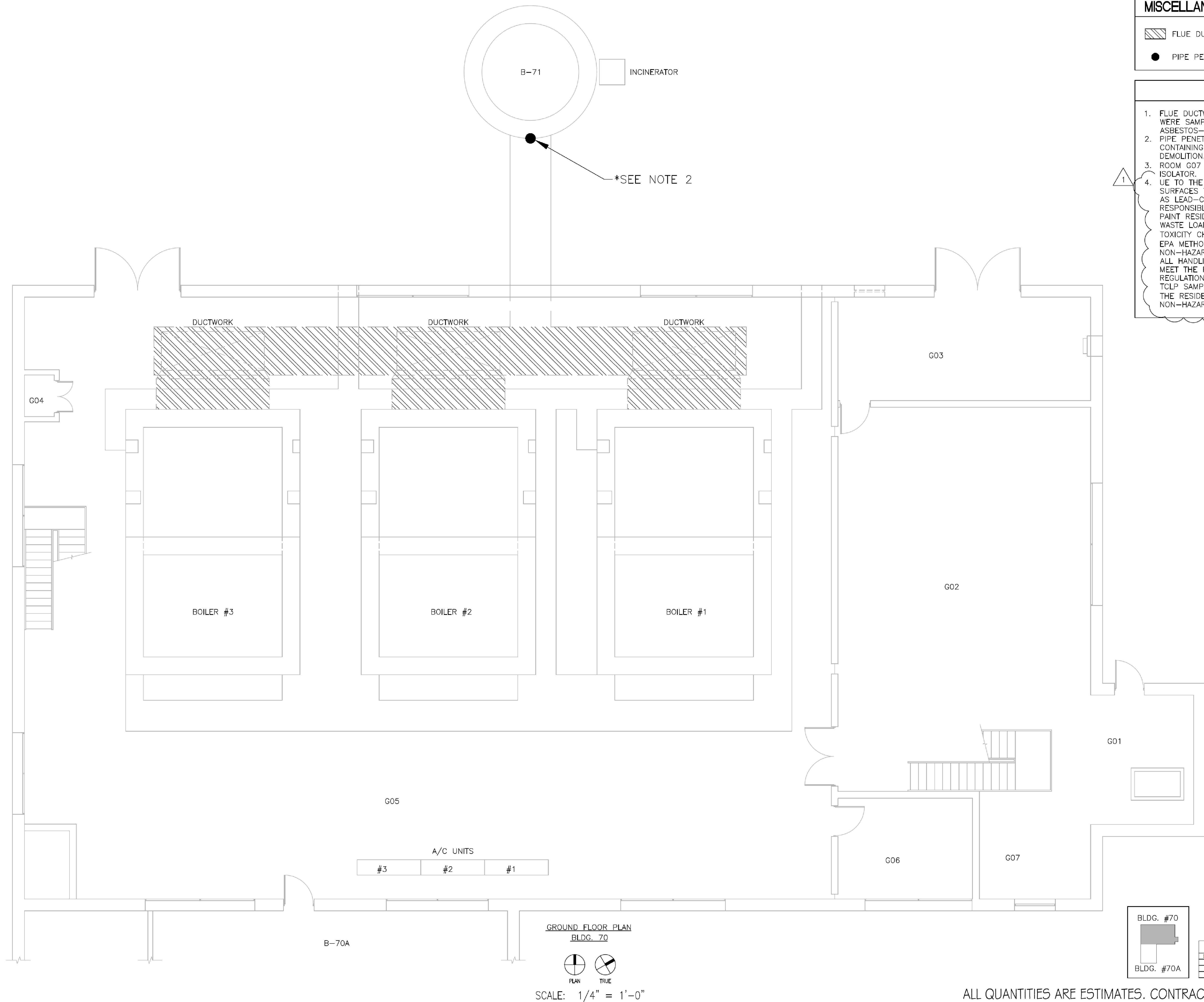
D
three quarters inch = one foot
2
0
6"

E
one half inch = one foot
4
0
6"

F
three eighths inch = one foot
4
0
6"

G
one quarter inch = one foot
8
0
6"

H
one eighth inch = one foot
16
0
6"



MISCELLANEOUS MATERIAL TO BE ABATED

FLUE DUCTWORK & INSULATION

PIPE PENETRATION INTO STACK

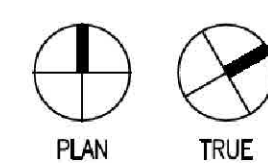
SPECIAL NOTES

1. FLUE DUCTWORK FROM BOILERS ON GROUND FLOOR WERE SAMPLED. ALL DUCTWORK IS CONSIDERED ASBESTOS-CONTAINING.
2. PIPE PENETRATION INTO STACK IS SEALED WITH MASTIC CONTAINING ASBESTOS AND MUST BE ABATED PRIOR TO DEMOLITION.
3. ROOM G07 HAS ONE 4'X4' GREEN CANVAS VIBRATION ISOLATOR.
4. UE TO THE AGE OF THE BUILDINGS, PAINT ON SURFACES TO BE DEMOLISHED SHALL BE CONSIDERED AS LEAD-CONTAINING PAINT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLASSIFYING ALL WASTE LOADS AS PAINT RESIDUE OR DEMOLITION DEBRIS. PAINT RESIDUE WASTE LOADS MUST BE LABORATORY TESTED BY THE TOXICITY CHARACTERISTICS LEACHING PROCEDURE (TCLP), EPA METHOD 1311, TO DETERMINE HAZARDOUS/ NON-HAZARDOUS STATUS & DISPOSAL REQUIREMENTS. ALL HANDLING & DISPOSAL OF WASTE LOADS SHALL MEET THE REQUIREMENTS OF FEDERAL, STATE, & LOCAL REGULATIONS GOVERNING THE WORK OF THE PROJECT. TCLP SAMPLE TEST RESULTS SHALL BE PROVIDED TO THE RESIDENT ENGINEER TO CONFIRM HAZARDOUS/ NON-HAZARDOUS & DISPOSAL REQUIREMENTS STATUS.

BLDG. #70
BLDG. #70A

Pipe Insulation (Linear Feet)									
Pipe penetration into stack	2"	3"	4"	6"	8"	10"	12"	14"	18"
Total	2	0	0	0	0	0	2	0	0
Additional									
G05-G07-B	Direct Insulation								6176.8'

GROUND FLOOR PLAN
BLDG. 70



SCALE: 1/4" = 1'-0"

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1 2 3 4 5 6 7 8 9

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot

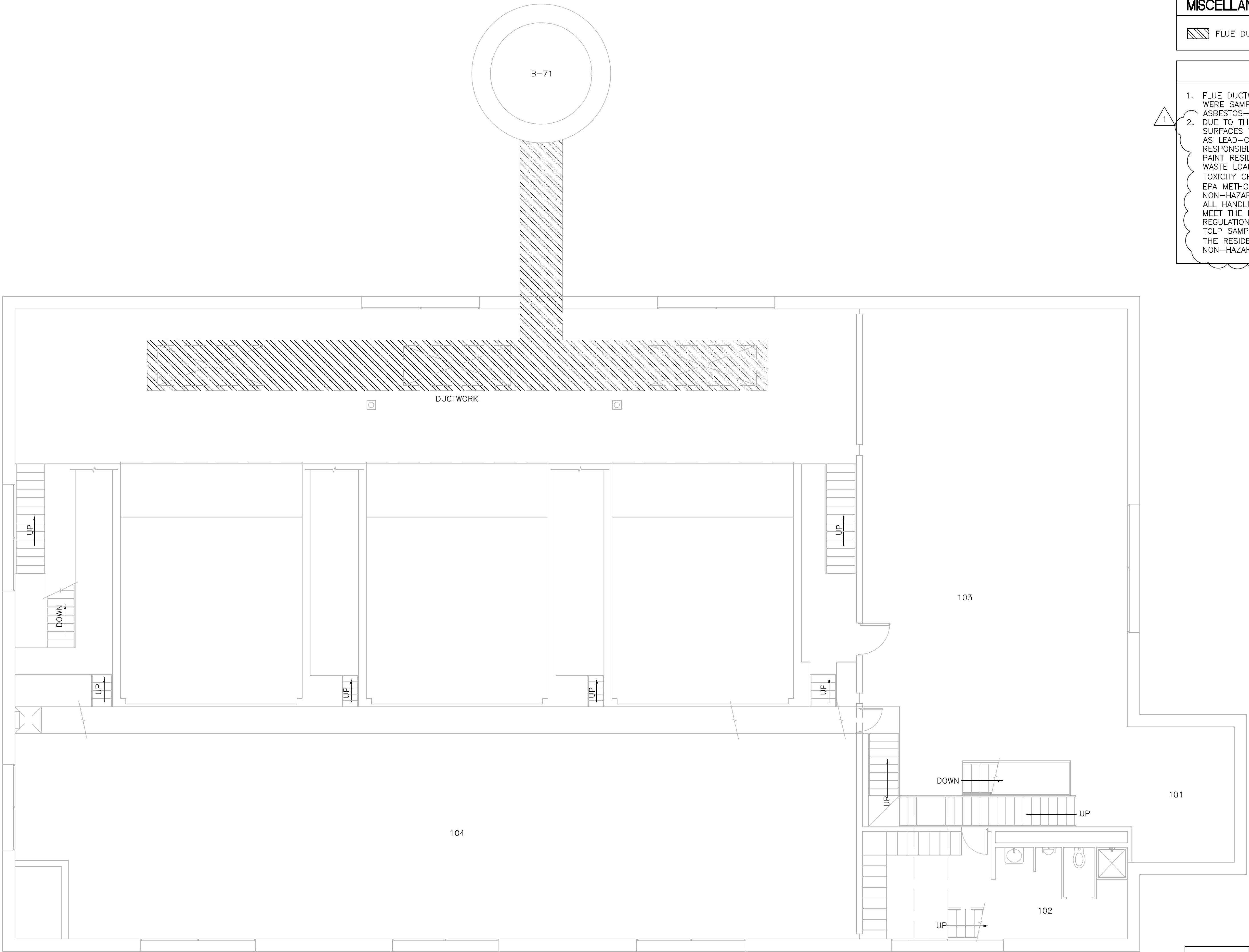
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MISCELLANEOUS MATERIAL TO BE ABATED

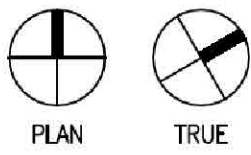
FLUE DUCTWORK & INSULATION

SPECIAL NOTES

1. FLUE DUCTWORK FROM BOILERS ON GROUND FLOOR WERE SAMPLED. ALL DUCTWORK IS CONSIDERED ASBESTOS-CONTAINING.
2. DUE TO THE AGE OF THE BUILDINGS, PAINT ON SURFACES TO BE DEMOLISHED SHALL BE CONSIDERED AS LEAD-CONTAINING PAINT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLASSIFYING ALL WASTE LOADS AS PAINT RESIDUE OR DEMOLITION DEBRIS. PAINT RESIDUE WASTE LOADS MUST BE LABORATORY TESTED BY THE TOXICITY CHARACTERISTICS LEACHING PROCEDURE (TCLP), EPA METHOD 1311, TO DETERMINE HAZARDOUS/ NON-HAZARDOUS STATUS & DISPOSAL REQUIREMENTS. ALL HANDLING & DISPOSAL OF WASTE LOADS SHALL MEET THE REQUIREMENTS OF FEDERAL, STATE, & LOCAL REGULATIONS GOVERNING THE WORK OF THE PROJECT. TCLP SAMPLE TEST RESULTS SHALL BE PROVIDED TO THE RESIDENT ENGINEER TO CONFIRM HAZARDOUS/ NON-HAZARDOUS & DISPOSAL REQUIREMENTS STATUS.



BALCONY FLOOR PLAN
BLDG. 70



SCALE: 1/4" = 1'-0"

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No.	Date	Revisions
1	01/15/15	AMENDMENT 2 - ADD NOTE 2

CONSULTANTS:

CIVIL ENGINEER:
STOCK & ASSOCIATES CONSULTING ENGINEERS, INC.
257 CHESTERFIELD BUSINESS PARKWAY
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HAZARDOUS MATERIALS:
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P.O. BOX 17867
SHREVEPORT, LA 71118-0867
PHONE: (318) 867-3771



FIRE PROTECTION:
CODE CONSULTANTS, INC.
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ST. LOUIS, MO 63103
PHONE: (314) 962-5344

CERTIFICATE OF AUTHORITY

ROBERT B. RAINES, II, PE
LICENSE NO. PE-2014029031

31 DECEMBER 2014

ARCHITECT:

CHRISTNER

ARCHITECTS | DESIGNERS | PLANNERS | LANDSCAPE ARCHITECTS
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Drawing Title

BALCONY FLOOR
MISCELLANEOUS MATERIAL TO BE
ABATED PRIOR TO DEMOLITION

Approved Project Director

John Sanders

Project Title

DEMOLISH UTILITY PLANT
BOILER AND CHILLER PLANT

Location

JEFFERSON BARRACKS DIVISION

Date

29 OCTOBER 2012

Checked

RWD

Drawn

LNJ

Project Number
657-313G

Building Number
70/70A/71

Drawing Number

HA111

Dwg. 19 of 27

Office of
Construction
and Facilities
Management

Department of
Veterans Affairs

1 2 3 4 5 6 7 8 9

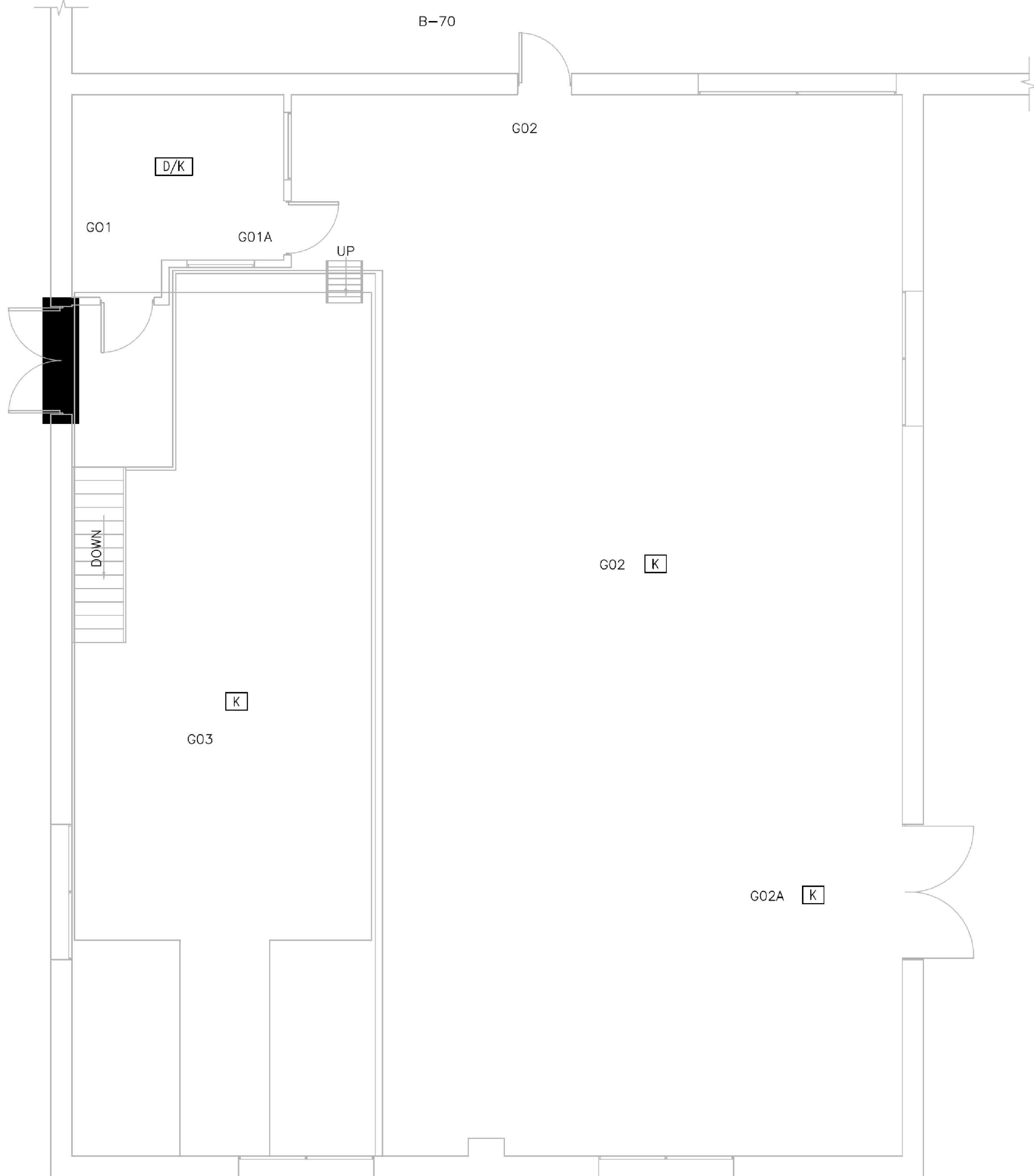
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B one and one half inches = one foot
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D three quarters inch = one foot
E one half inch = one foot
F one quarter inch = one foot
G three eighths inch = one foot
H one eighth inch = one foot

MISCELLANEOUS MATERIAL TO BE ABATED

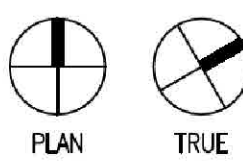
FIRE DOORS
(1 PAIR OF DOORS ASSUMED)

SPECIAL NOTES

1. DUE TO THE AGE OF THE BUILDINGS, PAINT ON SURFACES TO BE DEMOLISHED SHALL BE CONSIDERED AS LEAD-CONTAINING PAINT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLASSIFYING ALL WASTE LOADS AS PAINT RESIDUE OR DEMOLITION DEBRIS. PAINT RESIDUE WASTE LOADS MUST BE LABORATORY TESTED BY THE TOXICITY CHARACTERISTICS LEACHING PROCEDURE (TCLP), EPA METHOD 1311, TO DETERMINE HAZARDOUS/ NON-HAZARDOUS STATUS & DISPOSAL REQUIREMENTS. ALL HANDLING & DISPOSAL OF WASTE LOADS SHALL MEET THE REQUIREMENTS OF FEDERAL, STATE, & LOCAL REGULATIONS GOVERNING THE WORK OF THE PROJECT. TCLP SAMPLE TEST RESULTS SHALL BE PROVIDED TO THE RESIDENT ENGINEER TO CONFIRM HAZARDOUS/ NON-HAZARDOUS & DISPOSAL REQUIREMENTS STATUS.



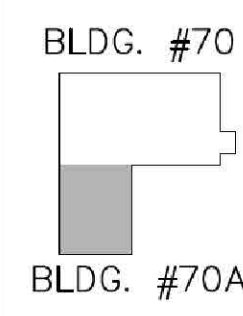
FLOOR PLAN
BLDG. 70A



SCALE: 1/4" = 1'-0"

CEILING MATERIAL LEGEND

- A 12" X 12" CEILING TILE
B 12" X 12" CEILING TILE W/GLUE DOTS
C 2' X 2' CEILING TILE
D 2' X 4' CEILING TILE
E SHEETROCK
F PLASTER
G TRANSITE
H SPRAY-ON INSULATION
I FIBERGLASS
J WOOD
K METAL
L CONCRETE



ALL QUANTITIES ARE ESTIMATES. CONTRACTOR IS TO VERIFY QUANTITIES.

No.	Date	Revisions
1	01/15/15	AMENDMENT 2 - ADD NOTE 1

CONSULTANTS:

CIVIL ENGINEER:
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HAZARDOUS MATERIALS:
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PHONE: (518) 867-3771



FIRE PROTECTION:
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ESTIMATING:
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CERTIFICATE OF AUTHORITY

ROBERT B. RAINES, II, PE
LICENSE NO. PE-2014028031

31 DECEMBER 2014

ARCHITECT:

CHRISTNER

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168 N. MERAMEC AVENUE | ST. LOUIS | MISSOURI 63105
TEL 314 725 2927 | FAX 314 725 2928 | CHRISTNERINC.COM

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Drawing Title

70A - CHILLER PLANT
MISCELLANEOUS MATERIAL TO BE
ABATED PRIOR TO DEMOLITION

Approved Project Director

John Sanders

Project Title

DEMOLISH UTILITY PLANT
BOILER AND CHILLER PLANT

Location

JEFFERSON BARRACKS DIVISION

Date

29 OCTOBER 2012

Checked

RWD

Drawn

LNJ

Project Number
657-313G

Building Number
70/70A/71

Drawing Number

HA112

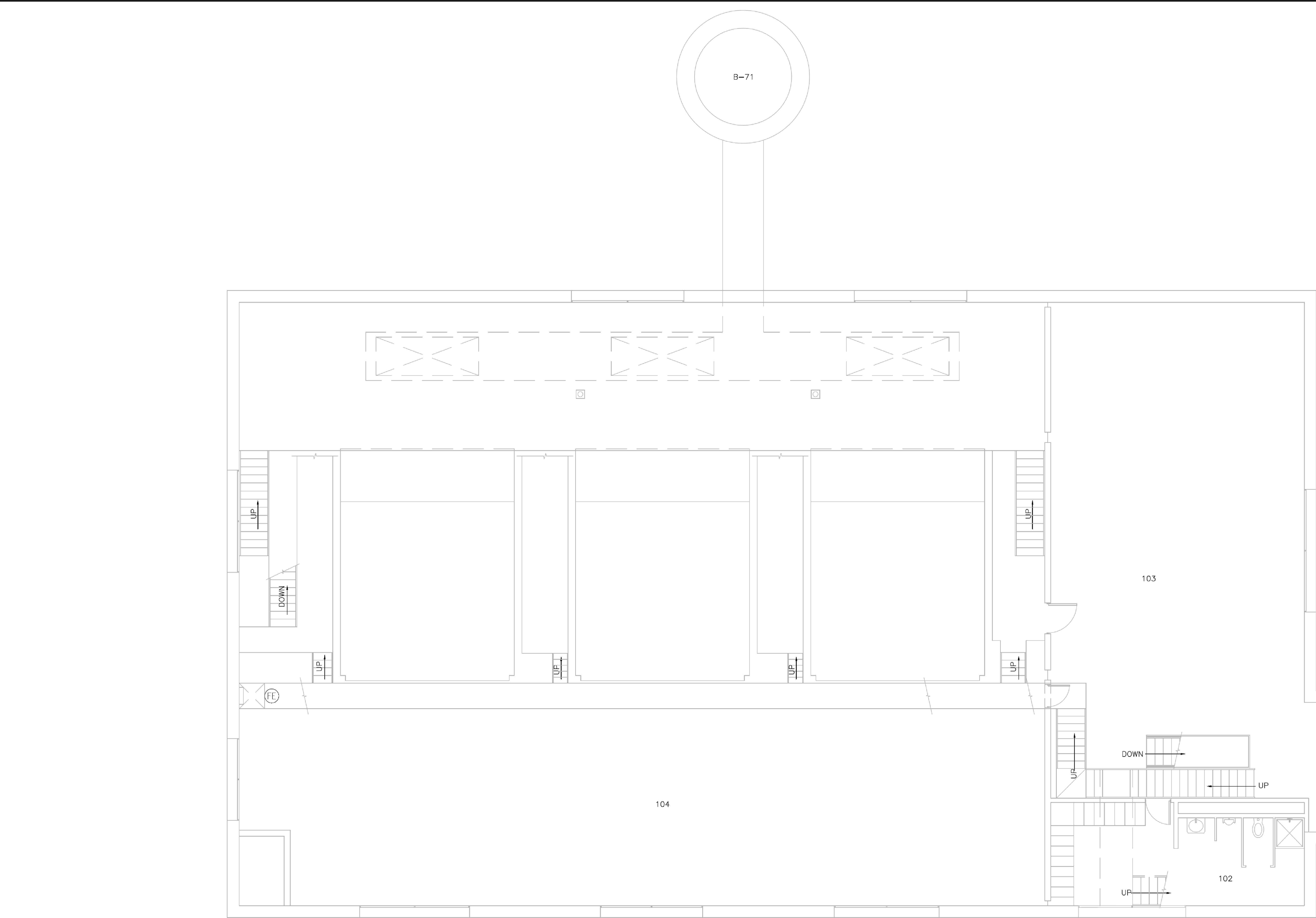
Dwg. 20 of 27

Office of
Construction
and Facilities
Management

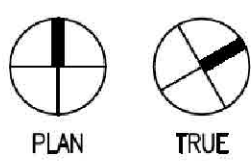
Department of
Veterans Affairs

1 2 3 4 5 6 7 8 9

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot



BALCONY FLOOR PLAN
BLDG. 70

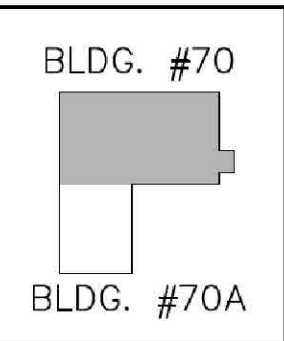


SCALE: 1/4" = 1'-0"

SPECIAL NOTES

1. A FEW EXAMPLES OF BALLASTS ASSESSED ARE PROVIDED FOR REVIEW PRIOR TO BIDDING. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING AND DISPOSING OF ALL BALLASTS. THIS WILL INCLUDE ALL THE NON-PCB BALLASTS AND THE BALLASTS THAT CONTAIN PCB'S. THE LOCATION OF A FEW EXAMPLE BALLASTS ARE PROVIDED. HOWEVER, ALL OF THE LIGHT BALLASTS ARE NOT SHOWN ON THE DRAWING.
2. DUE TO THE AGE OF THE BUILDINGS, PAINT ON SURFACES TO BE DEMOLISHED SHALL BE CONSIDERED AS LEAD-CONTAINING PAINT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLASSIFYING ALL WASTE LOADS AS PAINT RESIDUE OR DEMOLITION DEBRIS. PAINT RESIDUE WASTE LOADS MUST BE LABORATORY TESTED BY THE TOXICITY CHARACTERISTICS LEACHING PROCEDURE (TCLP), EPA METHOD 1311, TO DETERMINE HAZARDOUS/NON-HAZARDOUS STATUS & DISPOSAL REQUIREMENTS. ALL HANDLING & DISPOSAL OF WASTE LOADS SHALL MEET THE REQUIREMENTS OF FEDERAL, STATE, & LOCAL REGULATIONS GOVERNING THE WORK OF THE PROJECT. TCLP SAMPLE TEST RESULTS SHALL BE PROVIDED TO THE RESIDENT ENGINEER TO CONFIRM HAZARDOUS/NON-HAZARDOUS & DISPOSAL REQUIREMENTS STATUS.

BUILDING 70									
OTHER HAZARDOUS MATERIALS					BUILDING 70				
CEMENT	CEMENT	CEMENT	CEMENT	CEMENT	CEMENT	CEMENT	CEMENT	CEMENT	CEMENT
CEMENT	CEMENT	CEMENT	CEMENT	CEMENT	CEMENT	CEMENT	CEMENT	CEMENT	CEMENT
CEMENT	CEMENT	CEMENT	CEMENT	CEMENT	CEMENT	CEMENT	CEMENT	CEMENT	CEMENT
CEMENT	CEMENT	CEMENT	CEMENT	CEMENT	CEMENT	CEMENT	CEMENT	CEMENT	CEMENT
CEMENT	CEMENT	CEMENT	CEMENT	CEMENT	CEMENT	CEMENT	CEMENT	CEMENT	CEMENT
CEMENT	CEMENT	CEMENT	CEMENT	CEMENT	CEMENT	CEMENT	CEMENT	CEMENT	CEMENT
CEMENT	CEMENT	CEMENT	CEMENT	CEMENT	CEMENT	CEMENT	CEMENT	CEMENT	CEMENT
CEMENT	CEMENT	CEMENT	CEMENT	CEMENT	CEMENT	CEMENT	CEMENT	CEMENT	CEMENT



MATERIAL LEGEND

FIRE EXTINGUISHER
(FE)

ALL QUANTITIES ARE ESTIMATES. CONTRACTOR IS TO VERIFY QUANTITIES.

No.	Date	Revisions
1	01/15/15	AMENDMENT 2 - ADD NOTE 2

CONSULTANTS:

CIVIL ENGINEER:
STOCK & ASSOCIATES CONSULTING ENGINEERS, INC.
257 CHESTERFIELD BUSINESS PARKWAY
CHESTERFIELD, MO 63005
PHONE: (636) 530-9100

HAZARDOUS MATERIALS:
ALTEC ENVIRONMENTAL CONSULTING, LLC
P.O. BOX 17867
SHREVEPORT, LA 71118-0667
PHONE: (516) 867-3771



FIRE PROTECTION:
CODE CONSULTANTS, INC.
2043 WOODLAND PARKWAY, SUITE 300
ST. LOUIS, MO 63146
PHONE: (314) 991-2633

ESTIMATING:
KWAME BUILDING GROUP, INC.
1204 WASHINGTON AVENUE, SUITE 200
ST. LOUIS, MO 63103
PHONE: (314) 962-5344

CERTIFICATE OF AUTHORITY

ROBERT B. RAINES, II, PE
LICENSE NO. PE-2014028031

31 DECEMBER 2014

ARCHITECT:

CHRISTNER

ARCHITECTS | DESIGNERS | PLANNERS | LANDSCAPE ARCHITECTS
168 N. MERAMEC AVENUE | ST. LOUIS | MISSOURI 63105
TEL 314 725 2927 | FAX 314 725 2928 | CHRISTNERINC.COM

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Drawing Title

BALCONY FLOOR
HAZARDOUS AND NON-HAZARDOUS
MATERIAL TO BE ABATED

Approved Project Director

John Sanders

Project Title

DEMOLISH UTILITY PLANT
BOILER AND CHILLER PLANT

Location
JEFFERSON BARRACKS DIVISION

Date

29 OCTOBER 2012

Checked

RWD

Drawn

LNJ

Project Number

657-313G

Building Number

70/70A/71

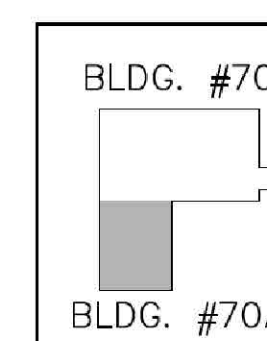
Drawing Number

HA121

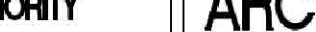



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and Facilities
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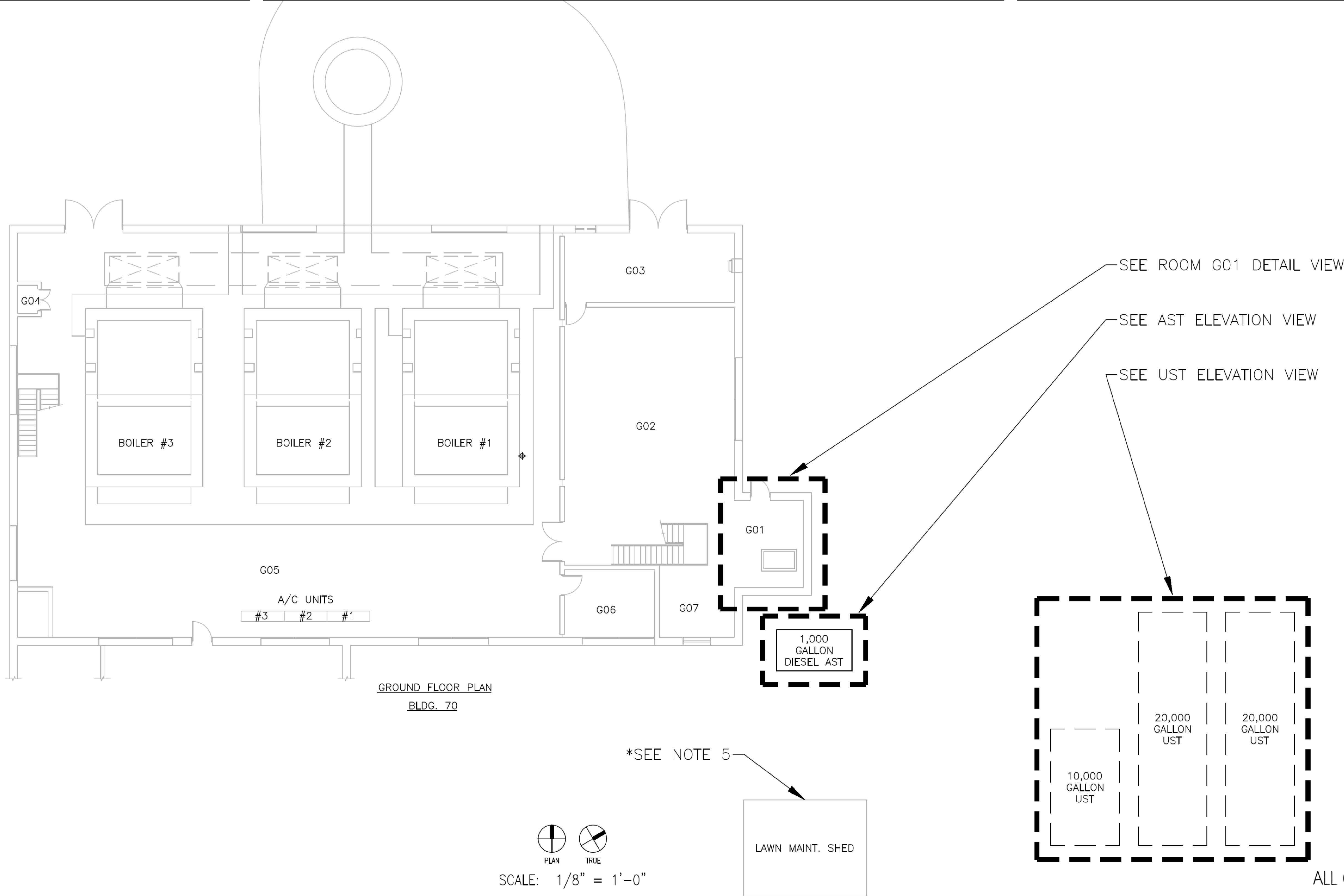
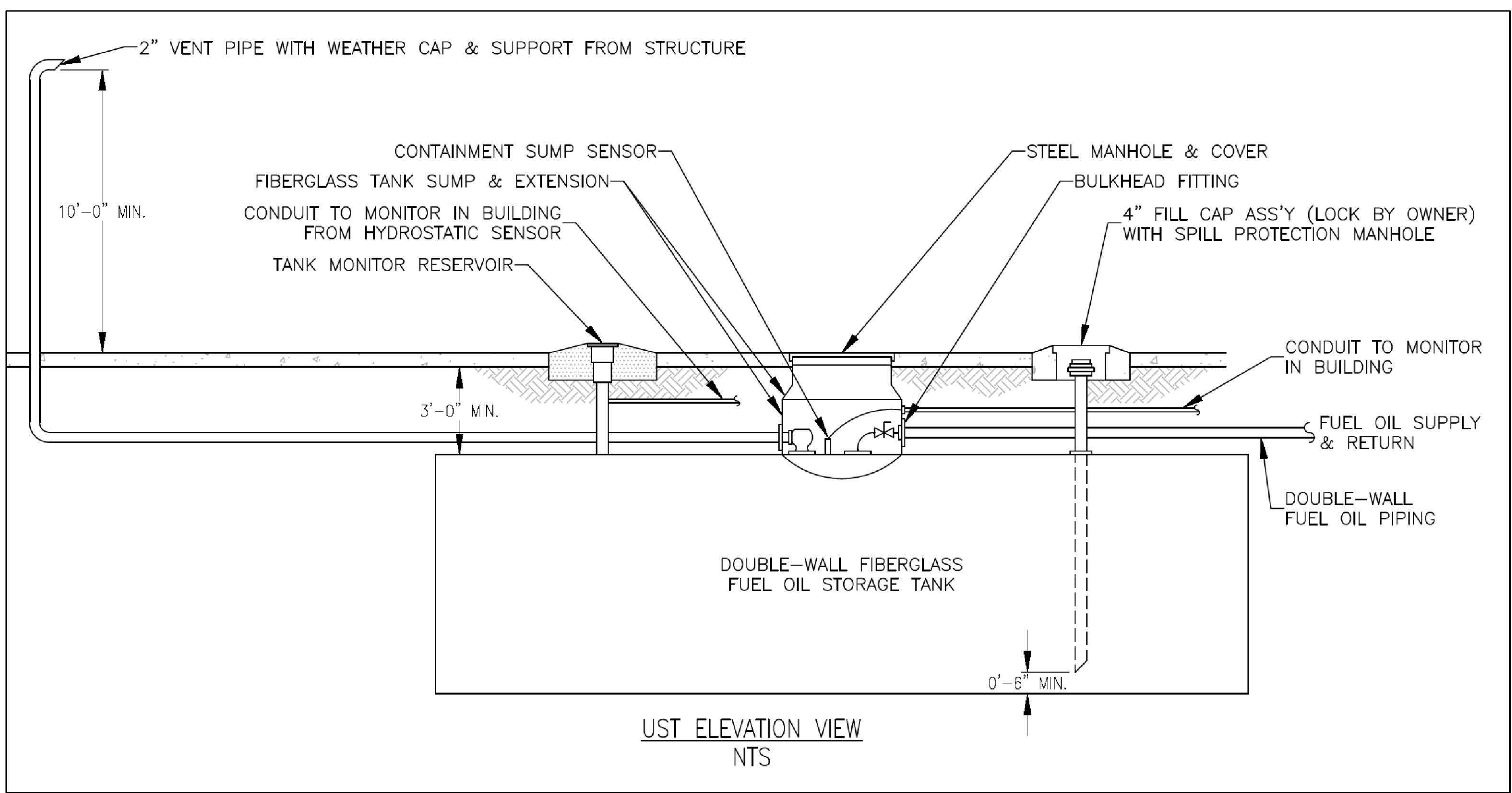
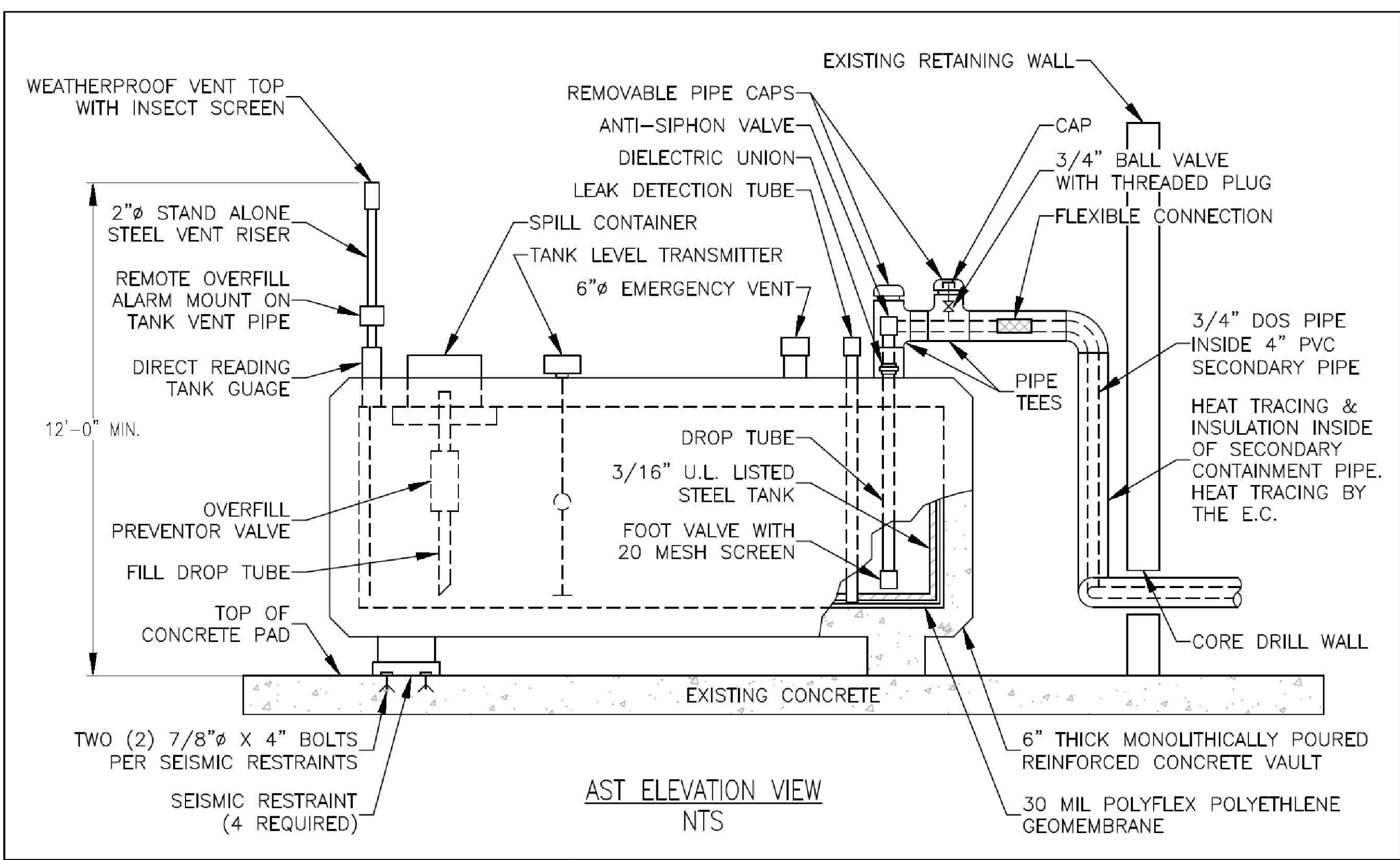
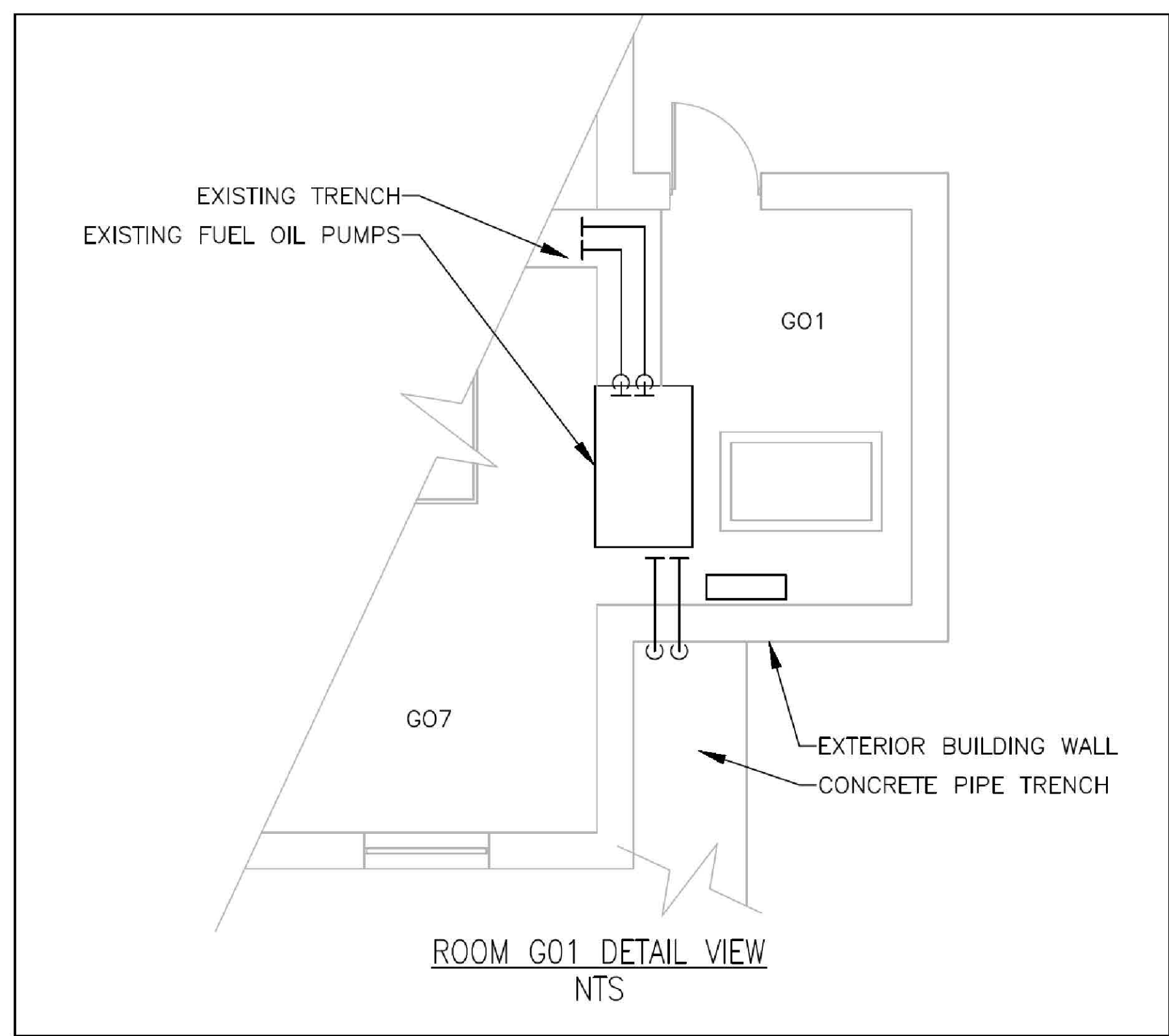
Department of
Veterans Affairs



ALL QUANTITIES ARE ESTIMATES. CONTRACTOR IS TO VERIFY QUANTITIES.

		CONSULTANTS:				CERTIFICATE OF AUTHORITY		ARCHITECT:		Drawing Title 70A - CHILLER PLANT HAZARDOUS AND NON-HAZARDOUS MATERIAL TO BE ABATED		Project Title DEMOLISH UTILITY PLANT BOILER AND CHILLER PLANT		Project Number 657-313G		Office of Construction and Facilities Management	
		CIVIL ENGINEER: STOK & ASSOCIATES CONSULTING ENGINEERS, INC. 257 CHESTERFIELD BUSINESS PARKWAY CHESTERFIELD, MO 63065 PHONE: (630) 520-9150		HAZARDOUS MATERIALS: ALTEC ENVIRONMENTAL CONSULTING, LLC P.O. BOX 17867 SHREVEPORT, LA 71138-0687 PHONE: (504) 687-3777						THE SEAL(S) AND SIGNATURE(S) APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND WE EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT. COPYRIGHT 2012 CHRISTNER, INC.		Location JEFFERSON BARRACKS DIVISION		Building Number 70/70A/71			
		FIRE PROTECTION: KWAME CONSULTANTS, INC. 2540 WOODLAND PARKWAY, SUITE 300 ST. LOUIS, MO 63146 PHONE: (314) 991-2633		ESTIMATING: KWAME BUILDINGS GROUP, INC. 1254 WASHINGTON AVENUE, SUITE 200 ST. LOUIS, MO 63103 PHONE: (314) 862-5344						Approved Project Director 		Date 29 OCTOBER 2012		Drawing Number HA122		Dwg. 23 of 27	
1 No. Date 01/15/15		AMENDMENT 2 - ADD NOTE 3 Revisions				31 DECEMBER 2014		ARCHITECTS DESIGNERS PLANNERS LANDSCAPE ARCHITECTS 168 N. MERAMEC AVENUE ST. LOUIS MISSOURI 63105 TEL 314.725.2927 FAX 314.725.2928 CHRISTNERINC.COM				Checked RWD		Draw LWJ			

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one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot



- SPECIAL NOTES**
1. DUE TO NEW CONSTRUCTION THAT IS ANTICIPATED, THE UST TANKS, AST TANK, PIPING FILL LINES, DISPENSERS, AND THE EXISTING FUEL PUMPS AND ASSOCIATED PIPING IN THE GENERATOR ROOM WILL BE PROPERLY REMOVED.
 2. PLEASE REFER TO UST AND AST CLOSURE GUIDANCE ON DRAWING 657-313G.70.HA131.
 3. COMPACT EXCAVATIONS WITH THE APPROPRIATE FILL MATERIAL IN ONE FOOT LIFTS TO MEET THE CIVIL REQUIREMENTS FOR SITE WORK.
 4. CONTRACTOR TO VERIFY REMAINING FUEL QUANTITIES & PROPERLY DISPOSE OF.
 5. QUANTITIES OF CHEMICALS TO BE VERIFIED BY THE CONTRACTOR & DISPOSED OF ACCORDING TO FEDERAL, STATE, & LOCAL REGULATIONS.
 6. CONTRACTOR TO VERIFY IF REFRIGERANT(S) IS/ARE ASSOCIATED WITH BUILDING 82 (COOLING TOWER). IF SO, IT/THEY SHOULD BE DISPOSED OF ACCORDING TO FEDERAL, STATE, & LOCAL REGULATIONS.
 7. DUE TO THE AGE OF THE BUILDINGS, PAINT ON SURFACES TO BE DEMOLISHED SHALL BE CONSIDERED AS LEAD-CONTAINING PAINT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLASSIFYING ALL WASTE LOADS AS PAINT RESIDUE OR DEMOLITION DEBRIS. PAINT RESIDUE WASTE LOADS MUST BE LABORATORY TESTED BY THE TOXICITY CHARACTERISTICS LEACHING PROCEDURE (TCLP), EPA METHOD 1311, TO DETERMINE HAZARDOUS/ NON-HAZARDOUS STATUS & DISPOSAL REQUIREMENTS. ALL HANDLING & DISPOSAL OF WASTE LOADS SHALL MEET THE REQUIREMENTS OF FEDERAL, STATE, & LOCAL REGULATIONS GOVERNING THE WORK OF THE PROJECT. TCLP SAMPLE TEST RESULTS SHALL BE PROVIDED TO THE RESIDENT ENGINEER TO CONFIRM HAZARDOUS/NON-HAZARDOUS & DISPOSAL REQUIREMENTS STATUS.

ALL QUANTITIES ARE ESTIMATES. CONTRACTOR IS TO VERIFY QUANTITIES.

CONSULTANTS: CIVIL ENGINEER: STOCK & ASSOCIATES CONSULTING ENGINEERS, INC. 257 CHESTERFIELD BUSINESS PARKWAY CHESTERFIELD, MO 63005 PHONE: (636) 530-9100 FIRE PROTECTION: CODE CONSULTANTS, INC. 2043 WOODLAND PARKWAY, SUITE 300 ST. LOUIS, MO 63146 PHONE: (314) 991-2633 HAZARDOUS MATERIALS: ALTEC ENVIRONMENTAL CONSULTING, LLC P.O. BOX 17667 SHREVEPORT, LA 71138-0667 PHONE: (516) 867-3771 ESTIMATING: KWAME BUILDING GROUP, INC. 1254 WASHINGTON AVENUE, SUITE 200 ST. LOUIS, MO 63103 PHONE: (314) 962-5344		CERTIFICATE OF AUTHORITY ROBERT B. RAINES, II, PE LICENSE NO. PE-2014028031 31 DECEMBER 2014	ARCHITECT: CHRISTNER ARCHITECTS DESIGNERS PLANNERS LANDSCAPE ARCHITECTS 168 N. MERAMEC AVENUE ST. LOUIS MISSOURI 63105 TEL 314 725 2927 FAX 314 725 2928 CHRISTNERINC.COM	Drawing Title USTs/AST SITE PLAN AND DETAIL VIEWS Approved Project Director [Signature]	Project Title DEMOLISH UTILITY PLANT BOILER AND CHILLER PLANT Location JEFFERSON BARRACKS DIVISION Date 29 OCTOBER 2012 Checked RWD Drawn LNU	Project Number 657-313G Building Number 70/70A/71 Drawing Number HA130 Dwg. 24 of 27	Office of Construction and Facilities Management Department of Veterans Affairs
1 01/15/15 AMENDMENT 2 - ADD NOTE 7 No. Date Revisions							